

- 1. Juni 2007
D9A

D9a

JP-5-287635-A

Application No. 4-108567
Filing date March 31, 1992
Publication No. 5-387635-A
Publication date November 2, 1993

Applicant ADVANCE COOPERATIVE ASSOCIATION

SPECIFICATION

Title: Double Weave Fabric

Scope of Claim for Patent

[Claim 1] A double weave fabric comprising an upper ply (1) and a lower ply (4) joined through pile yarns (7) to each other, wherein the pile yarns (7) are woven alternately into the upper ply (1) and the lower ply (4) along the warp direction of the fabric with predetermined intervals and the pile yarns extending from one ply to the other ply are woven with a plurality of intermediate weft yarns (8) extending along the weft direction.

[Claim 2] The double weave fabric as claimed in claim 1, wherein the warp and weft yarns of the upper ply (1) and the lower ply (4) are filament yarns and the intermediate yarns (8) are used as waste edge yarns.

[Claim 3] The double weave fabric as claimed in claim 1, wherein the upper ply (1) and the lower ply (4)

have an airtight structure.

Passage 1

--[0016] Figs. 6 and 7 shows a second embodiment of the present invention in which the outer surfaces of the upper and lower plies 1 and 4 are coated with airtight layers 15 formed by a resin coating. In this embodiment, the weaving yarns including the pile yarns are formed from polyamide fibers or polyaramid fibers and the intervals of the pile yarns 7 located between the upper and lower piles are established wide. The conceptional appearance of the woven fabric of the second embodiment is shown in Fig. 7.

Passage 2

--[0018]

[Effect of the Invention]

As explained above, in the double weave fabric of the present invention, the space formed between the upper ply and the lower ply is partitioned with the intermediate structure. The partitioned air spaces can contain articles therein, and the articles contained can be held in the air spaces without moving. The above-mentioned weave structure can be produced from conventional yarns for weaves without using special yarns used in prior art.

(19)日本国特許庁(JP)

(12)公開特許公報(A)

(11)特許出願公開番号

特開平5-287635

(43)公開日 平成5年(1993)11月2日

(51)Int.Cl.

D 0 3 D 11/00

識別記号

庁内整理番号

F I

技術表示箇所

Z 7199-3B

審査請求 未請求 請求項の数3(全5頁)

(21)出願番号 特願平4-108567

(22)出願日 平成4年(1992)3月31日

(71)出願人 392010175

アドバンス協同組合

石川県金沢市高岡町1番33号

(72)発明者 北山 修三

石川県羽咋郡志賀町萩島126-15

(72)発明者 藤本 和朗

石川県能美郡根上町中町790-8

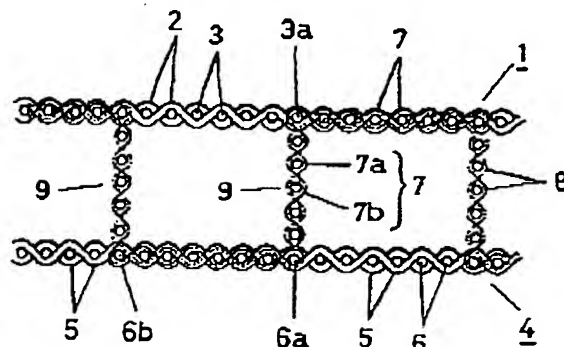
(74)代理人 弁理士 西 孝雄

(54)【発明の名称】 二重織物

(57)【要約】

【目的】 パイル糸で上側組織と下側組織とを連結した二重織物に関し、特に、両組織を互いに引き離したときにこれらが略平行となる二重織物において、普通の織物糸で製造できる新規な組織の二重織物を提供することである。

【構成】 上側組織1と下側組織4とをパイル糸7で連結した二重織物において、パイル糸7を上下の組織1、4に経方向に所定距離交互に絡り込む構造とし、所定距離絡り込まれる毎に上下の組織1、4の一方から他方に移るパイル糸7で緯方向に挿入された複数本の中間緯糸8を絡り込んだ構造とした。中間緯糸として捨耳糸を用いることにより、クッション性及び吸水性の優れたマット材を得ることができ、また上下の組織1、4に合成樹脂フィルムを転写したり合成樹脂をコーティングして気密組織とした構造は、上下の組織1、4の間の空間に空気を吹き込んでエアドームの壁面を形成することができる。



- 1: Upper ply
- 2: Warp of upper ply
- 3, 3a: Weft of upper ply
- 4: Lower ply
- 5: Warp of lower ply
- 6, 6a, 6b: Weft of lower ply
- 7, 7a, 7b: Pile yarn
- 8: Intermediate weft
- 9: Intermediate structure

No title available

1/1

D9a

Publication number: JP5287635

Publication date: 1993-11-02

Inventor: KITAYAMA SHUZO; FUJIMOTO KAZURO

Applicant: ADVANCE KYODO KUMIAI

Classification:

- international: D03D11/00; D03D11/00; (IPC1-7): D03D11/00

- European:

Application number: JP19920108567 19920331

Priority number(s): JP19920108567 19920331

[View INPADOC patent family](#)[View list of citing documents](#)[Report a data error here](#)

Abstract of JP5287635

PURPOSE: To provide a double woven fabric suitable as various industrial materials such as cushioning materials, sound absorbing wall cloths or water absorbing mats in which the movement of contents filled in a space formed between an upper design and a lower design is suppressed by dividing the space with an intermediate design. **CONSTITUTION:** An upper design 1 and a lower design 4 formed by arranging warp yarns 2 and 5 composed of filament yarn of 1000-1500 denier and weft yarns 3 and 6 at a density of 50-60 yarns per inch are connected with pile yarns 7 at a prescribed interval in the warp direction. In the process, intermediate weft yarns 8 utilizing plural trimmed selvage yarns inserting and passing through the weft direction are woven with the pile yarns 7 transferring from either of the upper design 1 and the lower design 4 to the other at the prescribed interval. The space between both the upper and lower designs 1 and 4 is divided with the intermediate design to form the objective double woven fabric capable of suppressing the movement of various fillers. A synthetic resin film is transferred to the surface of the upper and lower designs 1 and 4 or a synthetic resin is applied to afford an airtight design. Air is fed to the space between the upper and lower designs 1 and 4 to utilize the woven fabric as an air dome wall surface.

